36 (New). A composite material comprising graphite fibers dispersed in a matrix material comprising by volume at least 50 percent elemental silicon, said graphite fibers possessing a negative CTE at least in the axial direction.

- (New). The composite material of claim 36, produced by a process comprising:
 - (a) coating silicon carbide onto said graphite fibers;
 - (b) collecting said fibers as a porous preform;
 - (c) introducing a carbonaceous resin to said preform;
- (d) pyrolyzing said resin, thereby adding about 1-10 percent by weight of carbon to said preform;
- (e) contacting a source of silicon or silicon alloy in molten form to said carboncontaining preform;
- (f) infiltrating said molten silicon or silicon alloy into said carbon-containing preform, thereby forming said matrix material; and
 - (g) solidifying said silicon or silicon alloy.
 - 36 (New). The composite material of claim 36, further comprising silicon carbide.
- (New). The composite material of claim 38, wherein at least some of said silicon carbide is provided on said graphite fibers as a protective coating intended to prevent direct contact of said graphite fibers with said silicon during processing.
- (New). The composite material of claim 36, wherein said fibers are provided as at least one substantially flat ply, and a coefficient of thermal expansion of said composite is quasi-isotropic within the plane of said ply.

(New). The composite material of claim 36, wherein said fibers are provided in the form of a plurality of stacked plies, and further wherein said fibers are substantially unidirectional within a ply, and further wherein said plies are oriented with respect to one another as to produce a quasi-isotropic coefficient of thermal expansion within the plane of said stacked plies.

1) 42 (New). The composite material of claim 41, wherein said quasi-isotropic condition is achieved by orienting said plies at angles of +45 degrees, -45 degrees and 90 degrees with respect to a reference ply.

#A3 (New). The composite material of claim 41, wherein said quasi-isotropic condition is achieved by orienting said plies at angles of +60 degrees and -60 degrees with respect to a reference ply.

44 (New). The composite material of claim 36, comprising at least about 30 percent by volume of said fibers.

/45 (New). The metal matrix composite material of claim 36, further comprising a coefficient of thermal expansion no greater than about 4 ppm/K.

\$\iiiist\$ 46 (New). The metal matrix composite material of claim 41, wherein an overall CTE of said composite in a quasi-isotropic direction is no greater than about 3 ppm/K.

REMARKS

Claims 21-49 are pending. Applicants have cancelled claims 5a, 6 and 11a without prejudice or disclaimer. Claims 33-46 have been added.

Cancelled claims 5a, 6 and 11a effectively have been re-numbered as new claims 33-35.